21051YP SEQUENCE LISTING <110> Emini, Emilio A. Shiver, John W. Casimiro, Danilo R. Bett, Andrew J. Liang, Xiaoping Fu, Tong-Ming <120> METHOD OF INDUCING AN ENHANCED IMMUNE RESPONSE AGAINST HIV <130> 21051YP <140> US 10/507,237 <141> 2004-09-09 <150> PCT/US03/07727 <151> 2003-03-12 <150> 60/363,807 <151> 2002-03-13 <160> 5 <170> FastSEQ for Windows Version 4.0 <210> 1 <211> 1521 <212> DNA <213> Artificial Sequence <220> <223> Codon optimized DNA encoding human HIV-1 gag <400> 1 atgggtgcta gggcttctgt gctgtctggt ggtgagctgg acaagtggga gaagatcagg 60 ctgaggcctg gtggcaagaa gaagtacaag ctaaagcaca ttgtgtgggc ctccagggag 120 ctggagaggt ttgctgtgaa ccctggcctg ctggagacct ctgaggggtg caggcagatc 180 ctgggccagc tccagccctc cctgcaaaca ggctctgagg agctgaggtc cctgtacaac 240 acagtggcta ccctgtactg tgtgcaccag aagattgatg tgaaggacac caaggaggcc 300 ctggagaaga ttgaggagga gcagaacaag tccaagaaga aggcccagca ggctgctgct 360 ggcacaggca actccagcca ggtgtcccag aactacccca ttgtgcagaa cctccagggc 420 cagatggtgc accaggccat ctccccccgg accctgaatg cctgggtgaa ggtggtggag 480 gagaaggeet teteceetga ggtgateeee atgttetetg eeetgtetga gggtgeeaee 540 ccccaggacc tgaacaccat gctgaacaca gtgggggggcc atcaggctgc catgcagatg 600 ctgaaggaga ccatcaatga ggaggctgct gagtgggaca ggctgcatcc tgtgcacgct 660 ggccccattg cccccggcca gatgagggag cccaggggct ctgacattgc tggcaccacc 720 tccaccctcc aggagcagat tggctggatg accaacaacc cccccatccc tgtgggggaa 780 atctacaaga ggtggatcat cctgggcctg aacaagattg tgaggatgta ctcccccacc 840 tccatcctgg acatcaggca gggccccaag gagcccttca gggactatgt ggacaggttc 900 tacaagaccc tgagggctga gcaggcctcc caggaggtga agaactggat gacagagacc 960 ctgctggtgc agaatgccaa ccctgactgc aagaccatcc tgaaggccct gggccctgct 1020 gccaccctgg aggagatgat gacagcctgc cagggggtgg ggggccctgg tcacaaggcc 1080 agggtgctgg ctgaggccat gtcccaggtg accaactccg ccaccatcat gatgcagagg 1140

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